

SPDT RF Switch

RF1, RF2 Terminated in "OFF" State

Model TWD5002

30 to 1000 MHz

Features

- 30- 1000 MHz
- RF1, RF2 Terminated in 'Off' State
- Integral TTL Driver
- Operating Temp. - 55 °C to + 85 °C
- Environmental Screening available

Specifications

CHARACTERISTIC	TYPICAL Ta = 25 °C	MIN/MAX Ta = - 55 °C to + 85 °C
Frequency	30 - 1000 MHz	30 - 1000 MHz
Insertion Loss (dB)	0.8	1.5 Max.
Isolation (dB)	75	55 Min.
VSWR	1.2:1	1.5:1 Max.
DC Bias	+Vdc/mA -Vdc/mA	+5/18 Max. - 5/12 Max.
Switching Speed (µsec)	0.75	2.0 Max.
Transients (mV)	750	—
1 dB Compression (dBm)	+23	—
Intercept Points (dBm)	IP ₂ +65 IP ₃ +40	—

Note: Care should always be taken to effectively ground the case of each unit

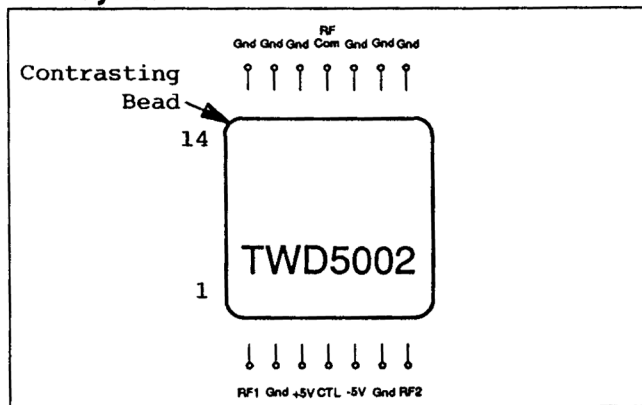
Maximum Ratings

Ambient Operating Temperature - 55 °C to + 100 °C
 Storage Temperature - 65 °C to + 125 °C
 Case Temperature + 125 °C
 DC Voltage +6.0; -6.0 Volts
 Continuous RF Input Power +30 dBm

Packaging Options (see Appendix)

14 Lead DIP Package (DP11)

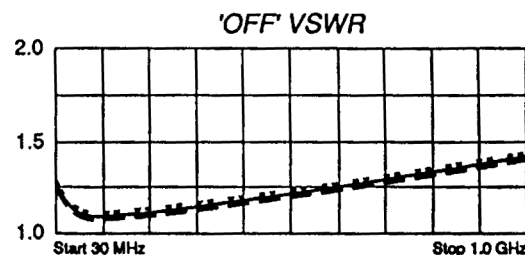
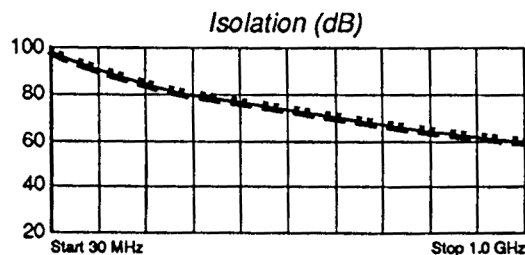
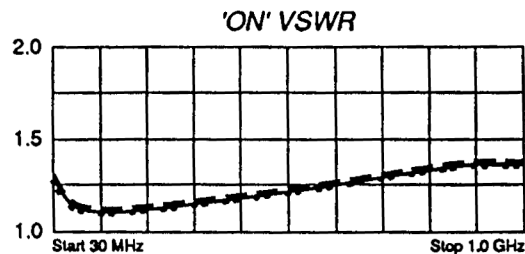
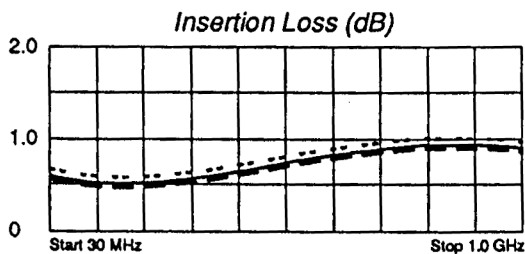
Pin Layout



Truth Table

Control Input	Switch Position
TTL	RF Common Connected To
0	RF1
1	RF2

Typical Performance Data



Legend ——— + 25 °C - - - - + 85 °C - 55 °C

